

## SEQUENCE LISTING

<110> The Brigham & Women's Hospital, Inc.  
Farzan, Michael R  
Dorfman, Tatyana K

<120> Peptides Binding gp120 of HIV-1

<130> 7570/80211

<160> 6

<170> PatentIn version 3.1

<210> 1

<211> 19

<212> PRT

<213> Homo sapiens

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G M D

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W T

Trp Tyr

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<211> 15

<212> PRT

<213> Homo sapiens

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 Gly Gly Tyr Tyr Tyr Asp Met Asp  
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 Y M D  
 Tyr Met Asp

2	132	100.0	29	8	ADR45766	Adr45766 Heavy cha
3	92	69.7	15	8	ADR45758	Adr45758 Peptide d
4	63	47.7	59	6	ABU56843	Abu56843 BoNT/A Hc
5	63	47.7	125	8	ADR38646	Adr38646 Mouse hea
6	62	47.0	59	6	ABU56892	Abu56892 BoNT/A Hc
7	62	47.0	125	8	ADR38648	Adr38648 Mouse hea
8	61	46.2	248	8	ADR28067	Adr28067 NPB polyp
9	55	41.7	264	7	ADC08293	Adc08293 Rice prot
10	55	41.7	264	7	ABM90325	Abm90325 Rice abio
11	55	41.7	267	7	ADC08046	Adc08046 Rice prot
12	55	41.7	267	7	ABM86582	Abm86582 Rice abio
13	54	40.9	52	6	ABU56891	Abu56891 BoNT/A Hc
14	53	40.2	119	9	ADZ70872	Adz70872 Human Ig
15	53	40.2	119	9	AEB28944	Aeb28944 Human ant
16	53	40.2	125	9	ADY75166	Ady75166 Antibody
17	53	40.2	132	5	ABB47418	Abb47418 Listeria
18	53	40.2	1491	10	AEI24203	Aei24203 Leuconost
19	53	40.2	1491	10	AEI53338	Aei53338 L. mesent
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22	53	40.2	1527	10	AEI24201	Aei24201 Leuconost
23	53	40.2	1527	10	AEI53336	Aei53336 L. mesent
24	52	39.4	16	9	ADY75173	Ady75173 Antibody
25	52	39.4	72	10	AEJ46099	Aej46099 Human 102
26	52	39.4	125	10	AEI64710	Aei64710 Anti-Ang-
27	52	39.4	140	5	ABP08052	Abp08052 Human ORF
28	52	39.4	802	6	ABU45524	Abu45524 Protein e
29	51.5	39.0	122	10	AEI64586	Aei64586 Anti-Ang-
30	51.5	39.0	814	5	AAO17586	Aao17586 M catarrh
31	51.5	39.0	818	4	AAB19945	Aab19945 Moraxella
32	51.5	39.0	1018	6	ABU38674	Abu38674 Protein e
33	51.5	39.0	1034	7	ABO77912	Abo77912 Pseudomon
34	51	38.6	128	6	AAO29546	Aao29546 Human 7.3
35	51	38.6	128	6	ABG71908	Abg71908 Human ant
36	51	38.6	128	10	AEG41133	Aeg41133 Human ant
37	50.5	38.3	253	5	ABP44978	Abp44978 Human BLy
38	50.5	38.3	253	7	ADG95805	Adg95805 Single ch
39	50.5	38.3	253	9	AED77858	Aed77858 Human B L
40	50.5	38.3	503	9	AEB41930	Aeb41930 L. pneumo
41	50.5	38.3	514	9	AEB38701	Aeb38701 L. pneumo
42	50	37.9	19	10	AEJ45962	Aej45962 Human 102
43	49.5	37.5	253	5	ABP45766	Abp45766 Human BLy
44	49.5	37.5	253	7	ADG96593	Adg96593 Single ch
45	49.5	37.5	253	9	AED78646	Aed78646 Human B L

# ALIGNMENTS

## RESULT 1

ADR45759

ID ADR45759 standard; peptide; 24 AA.

XX

AC ADR45759;

XX

DT 18-NOV-2004 (first entry)

XX

DE Peptide derived from antibody region binding to HIV-1 gp120.

XX

KW gp120; human immunodeficiency virus type 1; HIV-1; sulphated tyrosine;

KW viral surface; immune cell; HIV-1 entry; AIDS; HIV infection;

KW CCR5 receptor.

XX

OS Synthetic.

XX

FH Key Location/Qualifiers

FT Modified-site 12

# SCORE Search Results Details for Application 10772089 and Search Result 20070614\_092222\_us-10-772-089-4.rag.

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GenCore version 6.2.1  
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OM protein - protein search, using sw model

Run on: June 14, 2007, 11:07:26 ; Search time 259 Seconds  
(without alignments)  
45.344 Million cell updates/sec

Title: US-10-772-089-4  
Perfect score: 132  
Sequence: 1 NSIAGVAAAGDYADYDGGYYDMD 24

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2782304 seqs, 489333398 residues

Total number of hits satisfying chosen parameters: 2782304

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : A\_Geneseq\_200701:\*  
1: geneseqp1980s:\*  
2: geneseqp1990s:\*  
3: geneseqp2000s:\*  
4: geneseqp2001s:\*  
5: geneseqp2002s:\*  
6: geneseqp2003as:\*  
7: geneseqp2003bs:\*  
8: geneseqp2004s:\*  
9: geneseqp2005s:\*  
10: geneseqp2006s:\*  
11: geneseqp2007s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	132	100.0	24	8	ADR45759	Adr45759 Peptide d